



US006138545A

United States Patent [19][11] **Patent Number:** **6,138,545****Dueck**[45] **Date of Patent:** **Oct. 31, 2000**[54] **WIRE DRIVEN CUTTER FOR CARPET DISPENSER**5,431,077 7/1995 Murakami 83/162
5,775,191 7/1998 Burton et al. 83/488[76] Inventor: **Raymond Dueck**, Box 700, Arborg,
Manitoba, Canada, R0C 0A0*Primary Examiner*—M. Rachuba*Attorney, Agent, or Firm*—Adrian D. Battison; Murray E. Thrift[21] Appl. No.: **09/468,946**[57] **ABSTRACT**[22] Filed: **Dec. 22, 1999****Related U.S. Application Data**

[62] Division of application No. 08/825,939, Apr. 1, 1997.

[51] **Int. Cl.**⁷ **B26D 5/08**[52] **U.S. Cl.** **83/614; 83/618; 83/620;**
83/936; 83/937; 83/941; 83/487[58] **Field of Search** 83/487, 614, 618,
83/620, 640, 936, 937, 941[56] **References Cited****U.S. PATENT DOCUMENTS**

3,130,622	4/1964	Eno	83/620
3,213,736	10/1965	Keeton	83/620
3,527,131	9/1970	Ellerin et al.	83/620
3,977,286	8/1976	Werner	83/524
4,230,029	10/1980	Schott, Jr.	493/320
4,383,458	5/1983	Kitai	83/405
4,505,174	3/1985	Carithers, Jr.	83/455
4,506,575	3/1985	McCay et al.	83/368
4,590,834	5/1986	Sobel	83/614
4,779,500	10/1988	Bennett et al.	83/208
4,781,094	11/1988	Moretti	83/488
4,785,698	11/1988	Stork	83/620
4,809,921	3/1989	Dueck et al.	242/527.5
4,831,910	5/1989	Poulsen	83/620
4,951,539	8/1990	Buckner	83/620
5,168,786	12/1992	Huggins et al.	83/308
5,197,643	3/1993	Augustin	225/93
5,421,231	6/1995	Break et al.	83/471.3

The cutting mechanism includes a cutter block mounting a knife blade arranged for movement along a slot in a cutting table. The cutter block is driven by a cable and a first drive pulley. The cable extends under and around the first drive pulley and a second pulley, with the first end of the cable fixed to a second end of the cutter block, and the second end of the cable fixed to a first end of the cutter block. The cable and the first and second pulleys are arranged such that when the cutter block lies between the first end of the slot in the table and a center of first drive pulley the first and second ends of the cable are drawn taut thereby stopping movement of the cutter block along the slot towards the first end, and such that when the cutter block lies between the second end of the slot in the table and a center of the second pulley the first and second ends of the cable are likewise drawn taut stopping movement of the cutter block along the slot towards the second end. The cutting mechanism also includes a slot and receptacle arranged to mount the knife blade on the cutter block such that the knife blade can easily be arranged within, and removed from the slot and the receptacle. The cutter block also includes a knife blade securing means positionable between a first position which secures the knife blade in the slot, and a second position allowing for removal of the knife blade. Notches are provided at the top end of the slot which allow for easy grasping of the knife blade when removing the knife blade from the slot and allow for easy insertion of the knife blade into the slot. The notches are sized such that the finger and thumb of a person can easily grasp the second end of the knife blade.

13 Claims, 5 Drawing Sheets